BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISOIN

Name of the Work : **Modified Estimate for Improvements to Roads and Drains at Ramanjenaya layout Palanahalli in Ward No.05, Byatarayanapura Sub Division**

Modi Est Cost : 2075649.00

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Modified Improvements to Roads and Drains at Ramanjenaya layout Palanahalli in Ward No.05, Byatarayanapura Sub Division

									Estimate Cost Rs.	2075649.00
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount	
1	KSRB 2-2.1 : earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in **Hard soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No. 5/ Item No. 2.4/ PWD SR 2013-14	Cum								
	For Drains									
	1st Cross		1	265.00	0.50	0.60	79.50			
	2nd Cross		1	138.00	0.55	0.60	45.54			
	Kuvempu Badavani 1st Cross		1	106.00	0.60	0.60	38.16			
	2nd Cross		1	100.00	0.60	0.60	36.00			
	Culverts		4	6.00	1.85	1.05	46.62			
	For Cistren Tank		1	1.50	1.50	0.75	1.69			
	Sch B rate	**250.00**					250.63	250.00	**62658.00**	
2	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete -do- 7.5 cms thick Page No. 28/ Item No. 5.31.1/ PWD SR 2013-14	**Sqm**								
	1st Cross		1	265.00	1.65		437.25			
	2nd Cross		1	138.00	1.65		227.70			
	Kuvempu Badavani 1st Cross		1	106.00	1.65		174.90			
	2nd Cross		1	43.00	1.65		70.95			
							927.30	350.00	**324555.00**	
	Sch B rate	**350.00**								
3	KSRB-4-1.3 : Providing and laying in position **plain cement concrete of mix M 7.5** withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2013-14	**Cum**								
	For Culverts		4	6.00	1.85	0.15	6.66			
							6.66	4400.00	**29304.00**	
	Sch B rate	**4400.00**								

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry **in foundation** with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 25/ Item No. 5.6/ PWD SR 2013-14	cum							
	For Culverts		4X2	6.00	0.60	0.45	12.96		
							12.96	3600.00	**46656.00**
	Sch B rate	**3600.00**							
5	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry **in basement** with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 26/ Item No. 5.9/ PWD SR 2013-14	**Sqm**							
	For Culverts		4X2	6.00	0.50	0.45	10.80		
							10.80	**4400.00**	**47520.00**
	Sch B rate	**4400.00**							
6	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 17/ Item No. 4.34/ PWD SR 2013-14	**Sqm**							
	For Culverts		4	6.00	0.60		14.40		
	For Sides		4X2	6.00	0.23		11.04		
			4X2	1.65	0.23		3.04		
							28.48	**260.00**	**7404.00**
	Sch B rate	**260.00**							
7	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix **M10** withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/P No. 13/ Item No. 4.7/ PWD SR 2013-14	**cum**							
	For Culverts		4X2	6.00	0.45	0.10	2.16		
	Vent Bed		4	6.00	0.60	0.10	1.44		
							3.60	4800.00	**17280.00**
	Sch B rate	**4800.00**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
8	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix **M20** withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, **No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2013-14**	**Cum**							
	For Culverts		4	6.00	1.65	0.23	9.11		
							9.11	5750.00	**52371.00**
	Sch B rate	**5750.00**							
9	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 19/ Item No. 4.46.1/ PWD SR 2013-14	**Qtl**							
	100 Kgl/Cum		1.00	9.11			**9.11**	7450.00	**67855.00**
	Sch B rate	**7450.00**							
10	KSRB 15.1.3: Providing **FLush pointing** to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 122/ Item No. 15.1/ PWD SR 2013-14	Sqm							
	For Culverts		4X2	6.00		0.85	40.80		
							40.80	85.00	**3468.00**
	Sch B rate	**85.00**							
11	KSRRB M300-53: construction of **embankment** with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) MORTH specification Page No. 305.4.3, No. 159/ Item No. 19.60/ PWD SR 2013-14	**Cum**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	1st Cross		1	265.00	5.00	0.20	265.00		
	2nd Cross		1	138.00	5.00	0.20	138.00		
	Kuvempu Badavani 1st Cross		1	106.00	5.00	0.20	106.00		
	2nd Cross		1	100.00	5.00	0.20	100.00		
							622.20	180.00	**111996.00**
	Sch B rate	**180.00**							
12	KSRRB M400-14.2: Providing, laying, spreading and compacting stone aggregates of specific size to water bound macadam specifications. Including spreading in uniform thickness, hand packing, rolling with 3-whelled steel / vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening / binding materials to fill up the interstices of coarse aggregates, watering and compacting to the required density complete as per specifications. B by mechanical means, MORTH specification No. 404, Crushable type such as moorum or gravel for **grading II** , No. 170/ Item No. 20.15.1/ PWD SR 2013-14	**Cum**							
	1st Cross		1	265.00	5.00	0.10	132.50		
	2nd Cross		1	138.00	5.00	0.10	69.00		
	Kuvempu Badavani 1st Cross		1	106.00	5.00	0.10	53.00		
	2nd Cross		1	100.00	5.00	0.10	50.00		
							311.10	1520.00	**472872.00**
	Sch B rate	**1520.00**							
13	KSRRB M400-14.2: Providing, laying, spreading and compacting stone aggregates of specific size to water bound macadam specifications. Including spreading in uniform thickness, hand packing, rolling with 3-whelled steel / vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening / binding materials to fill up the interstices of coarse aggregates, watering and compacting to the required density complete as per specifications. B by mechanical means, MORTH specification No. 404, Crushable type such as moorum or gravel for **grading III** , No. 170/ Item No. 20.15.3/ PWD SR 2013-14	**Cum**							
	1st Cross		1	265.00	5.00	0.075	99.38		
	2nd Cross		1	138.00	5.00	0.075	51.75		
	Kuvempu Badavani 1st Cross		1	106.00	5.00	0.075	39.75		
	2nd Cross		1	100.00	5.00	0.075	37.50		
							233.33	1548.00	**361195.00**
	Sch B rate	**1548.00**							
	PVC Pipe Line								

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
14	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 5, I.NO - 2.4, PWD SR 13-14)	Cum							
	1st Cross		1	265.00	0.60	0.75	119.25		
	2nd Cross		1	138.00	0.60	0.75	62.10		
	Kuvempu Badavani 1st Cross		1	106.00	0.60	0.75	47.70		
	2nd Cross		1	100.00	0.60	0.75	45.00		
	Cross Road		1	150.00	0.60	0.75	67.50		
							338.40	240.00	**81216.00**
	Sch B rate	**240.00**							
15	Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.NO - 102, I.NO - 13.73.1, PWD SR 13-14)	Mtr							
	1st Cross		1	265.00			265.00		
	2nd Cross		1	138.00			138.00		
	Kuvempu Badavani 1st Cross		1	106.00			106.00		
	2nd Cross		1	100.00			100.00		
	Cross Road		1	150.00			150.00		
							752.00	370.00	**278240.00**
	Sch B rate	**370.00**							
16	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 6, I.NO - 2.11, PWD SR 13-14)	Cum							
			Qty. Vide Item No. 1				**338.40**	64.00	**21658.00**
	Sch B rate	**64.00**							
	Cistren Tank								
17	Providing and laying reinforced cement concrete pipe NP3 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications, specification No. KSRB 1000, 2300 MOST specification1000/2300, 1200mm dia, , No. 257 Item No. 34.6.6 PWD SR 2011-12	Mtrs							
			1	2.50			2.50	10100.00	**25250.00**
	Sch B rate	**10100.00**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
18	KSRB-4-1.3 : Providing and laying in position **plain cement concrete of mix M 7.5** withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2012-13 7	Cum							
			1	3.70	3.70	0.15	**2.05**	4400.00	**9035.00**
	Sch B rate	**4400.00**							
19	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry **in foundation** with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 25/ Item No. 5.6/ PWD SR 2013-14	cum							
	For Foundation		1	1.50	1.50	0.60	1.35		
							1.35	3650.00	**4928.00**
	Sch B rate	**3650.00**							
20	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry **in basement** with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 26/ Item No. 5.9/ PWD SR 2013-14	Cum							
			1	1.50	1.50	0.60	**1.35**	4400.00	**5940.00**
	Sch B rate	**4400.00**							
21	KSRB-4-1.6 : Providing and laying in position plain cement concrete of mix **M15** withOPC cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/ P.No. 12/ Item No. 4.6/ PWD SR 2013-14	Cum							
			1	3.70	3.70	0.15	**2.05**	4900.00	**10062.00**
	Sch B rate	**4900.00**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
22	KSRB 15.1.3: Providing **FLush pointing** to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 122/ Item No. 15.1/ PWD SR 2013-14	Sqm							
			4	1.50		0.60	**3.60**	95.00	**342.00**
	Sch B rate	**95.00**							
23	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete. Page No. 28/ Item No. 5.30/ PWD SR 2013-14	No.							
			30				30.00	280.00	**8400**
	Sch B rate	**280.00**							
24	Elbow, Page No. XXXV PWD SR-2013-14	No	6				6.00	125.00	**750.00**
	Sch B rate	**125.00**							
25	Tee Page No. XXXV PWD SR-2013-14	No	6				6.00	180.00	**1080.00**
	Sch B rate	**180.00**							
26	Union Page No. XXXV PWD SR-2013-14	No	2				2.00	245.00	**490.00**
	Sch B rate	**245.00**							
27	Nipple Page No. XXXV PWD SR-2013-14	No	6				6.00	110.00	**660.00**
	Sch B rate	**110.00**							
28	KSRB 13-6.3-6: Providing and fixing in position brass gate valve with C.I. wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6 / 13.3,Page No. 97/ Item No. 13.37 / PWD SR 2011-12	**Each**							
			2				**2**	**1600.00**	**3200.00**
	Sch B rate	**1600.00**							
29	Labour Charges for giving 50mm dia G.I Pipe end connection from rising main to cistern including cutting thereasding conceying laying an d jointing etc, complete inclusive of fixing 4 Nos. of 20mm dia G.I Pipess with taps to the cistern PRED SR-12-13 (P No. 19 I No. 3.13)	Each							
			1				**1.00**	1500.00	**1500.00**
	Sch B rate	**1500.00**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
30	Errection of RCC Hume pipe pump house/Cistern on size stone masory platform including trasportation charges and handing with all necessary tools and plants complete as directed by the Engineer in charge of work. PRED SR 2012-13 (p No. 20 I No. 3.17)	Each							
			1				**1.00**	1400.00	**1400.00**
	Sch B rate	**1400.00**							
31	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123,	Cum	(This Item is Not Considered in Tender, after Tender work we have taken in approved and Direction Joint Commissioner and Cheif engineer Yelahanka Zone as per Notesheet Approved Para No. 4 and 5						
			Qty. Vide Item No. 1				**250.63**		
							250.63	65.29	**16364.00**
	As per CE Approved Rate	**65.29**							
								Total	**2075649.00**

Rupees Twenty Lakh(s) Seventy Five Thousand Six Hundred Forty Nine Only

1 **Estimate Sanction amount Rs = 20.00**
2 **Tender Agriment Amount Rs = 2091593.00**
3 **Tender Primioum above +4.98**

Assistant Engineer

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Assistant Executive Engineer
Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore

BRUHAT BANGALORE MAHANAGARA PALLIKE

Comparitive Statement (ERIL)

Name of Work: Modified Estimate for Improvements to Roads and Drains at Ramanjenaya layout Palanahalli in Ward No.05, Byatarayanapura Sub Division

name of Contractor : Sri Gopireddy

Estimated Cost. 20.00 laksh

Tender Amount. 2091593.00

Work Order No. EE/BTP/BBMP/E-PMT/86/2014-15

Sl No	Description	Unit	As per Sanction Estimate			As per Tender Items			As per Actual Modified Est			Modified Tender Items			Remaks
			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	
1	KSRB 2-2.1 : earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in **Hard soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	Cum	250.63	227.88	**57113.56**	250.63	250.00	**62657.50**	250.63	250.00	**62657.50**	250.63	250.00	**62657.50**	
2	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete -do- 7.5 cms thick with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	Sqm	927.30	343.44	**318471.91**	927.30	350.00	**324555.00**	927.30	350.00	**324555.00**	927.30	350.00	**324555.00**	
3	KSRB-4-1.3 : Providing and laying in position **plain cement concrete of mix M 7.5** withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	Cum	6.66	4290.84	**28576.99**	6.66	4400.00	**29304.00**	6.66	4400.00	**29304.00**	6.66	4400.00	**29304.00**	

4	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry **in foundation** with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	cum	12.96	3549.96	**46007.48**	12.96	3600.00	**46656.00**	12.96	3600.00	**46656.00**	12.96	3600.00	**46656.00**	
5	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry **in basement** with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	**Sqm**	10.80	**4227.12**	**45652.90**	10.80	4400.00	**47520.00**	10.80	4400.00	**47520.00**	10.80	4400.00	**47520.00**	
6	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	**Sqm**	28.48	**244.08**	**6951.40**	28.48	260.00	**7404.80**	28.48	260.00	**7404.80**	28.48	260.00	**7404.80**	
7	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix **M10** withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	**cum**	3.60	4737.96	**17056.66**	3.60	4800.00	**17280.00**	3.60	4800.00	**17280.00**	3.60	4800.00	**17280.00**	

8	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix **M20** withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	**Cum**	9.11	5639.76	**51378.21**	9.11	5750.00	**52382.50**	9.11	5750.00	**52382.50**	9.11	5750.00	**52382.50**	
9	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	**Qtl**	9.11	7380.72	**67238.36**	9.11	7450.00	**67869.50**	9.11	7450.00	**67869.50**	9.11	7450.00	**67869.50**	
10	KSRB 15.1.3: Providing **FLush pointing** to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	Sqm	40.80	79.92	**3260.74**	40.80	85.00	**3468.00**	40.80	85.00	**3468.00**	40.80	85.00	**3468.00**	

11	KSRRB M300-53: construction of **embankment** with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) MORTH specification with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	**Cum**	622.20	166.32	**103484.30**	622.20	180.00	**111996.00**	622.20	180.00	**111996.00**	622.20	180.00	**111996.00**	
12	KSRRB M400-14.2: Providing, laying, spreading and compacting stone aggregates of specific size to water bound macadam specifications. Including spreading in uniform thickness, hand packing, rolling with 3-whelled steel / vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening / binding materials to fill up the interstices of coarse aggregates, watering and compacting to the required density complete as per specifications. B by mechanical means, MORTH specification with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	**Cum**	311.10	1366.20	**425024.82**	311.10	1520.00	**472872.00**	311.10	1520.00	**472872.00**	311.10	1520.00	**472872.00**	
13	KSRRB M400-14.2: Providing, laying, spreading and compacting stone aggregates of specific size to water bound macadam specifications. Including spreading in uniform thickness, hand packing, rolling with 3-whelled steel / vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening / binding materials to fill up the interstices of coarse aggregates, watering and compacting to the required density complete as per specifications. B by mechanical means, MORTH specification with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	**Cum**	233.33	1528.20	**356574.91**	233.33	1548.00	**361194.84**	233.33	1548.00	**361194.84**	233.33	1548.00	**361194.84**	

14	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	Cum	338.40	223.66	**75686.54**	338.40	240.00	**81216.00**	338.40	240.00	**81216.00**	338.40	240.00	**81216.00**	
15	Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	Mtr	752.00	359.64	**270449.28**	752.00	370.00	**278240.00**	752.00	370.00	**278240.00**	752.00	370.00	**278240.00**	
16	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	Cum	338.40	59.36	**20087.42**	338.40	64.00	**21657.60**	338.40	64.00	**21657.60**	338.40	64.00	**21657.60**	
	Providing and laying reinforced cement concrete pipe NP3 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications, specification No. KSRB 1000, 2300 MOST specification1000/2300, 1200mm dia, , with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	Mtrs	2.50	9087.12	**22717.80**	2.50	10100.00	**25250.00**	2.50	10100.00	**25250.00**	2.50	######	**25250.00**	

	KSRB-4-1.3 : Providing and laying in position **plain cement concrete of mix M 7.5** withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	Cum	2.05	4290.84	**8796.22**	2.05	4400.00	**9020.00**	2.05	4400.00	**9020.00**	2.05	4400.00	**9020.00**	
	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry **in foundation** with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	cum	1.35	3549.96	**4792.45**	1.35	3650.00	**4927.50**	1.35	3650.00	**4927.50**	1.35	3650.00	**4927.50**	
	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry **in basement** with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	Cum	1.35	4227.12	**5706.61**	1.35	4400.00	**5940.00**	1.35	4400.00	**5940.00**	1.35	4400.00	**5940.00**	
	KSRB-4-1.6 : Providing and laying in position plain cement concrete of mix **M15** withOPC cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	Cum	2.05	4779.00	**9796.95**	2.05	4900.00	**10045.00**	2.05	4900.00	**10045.00**	2.05	4900.00	**10045.00**	

	KSRB 15.1.3: Providing **FLush pointing** to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	Sqm	3.60	79.92	**287.71**	3.60	95.00	**342.00**	3.60	95.00	**342.00**	3.60	95.00	**342.00**	
	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete. with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	No.	30.00	267.84	**8035.20**	30.00	280.00	**8400.00**	30.00	280.00	**8400.00**	30.00	280.00	**8400.00**	
	Elbow,	No	6.00	111.80	**670.80**	6.00	125.00	**750.00**	6.00	125.00	**750.00**	6.00	125.00	**750.00**	
	Tee	No	6.00	169.00	**1014.00**	6.00	180.00	**1080.00**	6.00	180.00	**1080.00**	6.00	180.00	**1080.00**	
	Union	No	2.00	223.70	**447.40**	2.00	245.00	**490.00**	2.00	245.00	**490.00**	2.00	245.00	**490.00**	
	Nipple	No	6.00	104.30	**625.80**	6.00	110.00	**660.00**	6.00	110.00	**660.00**	6.00	110.00	**660.00**	
	KSRB 13-6.3-6: Providing and fixing in position brass gate valve with C.I. wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	**Each**	2	**1493.00**	**2986.00**	2.00	1600.00	**3200.00**	2.00	1600.00	**3200.00**	2.00	1600.00	**3200.00**	
	Labour Charges for giving 50mm dia G.I Pipe end connection from rising main to cistern including cutting thereasding conceying laying an d jointing etc, complete inclusive of fixing 4 Nos. of 20mm dia G.I Pipess with taps to the cistern with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	Each	1.00	1388.00	**1388.00**	1.00	1500.00	**1500.00**	1.00	1500.00	**1500.00**	1.00	1500.00	**1500.00**	
	Errection of RCC Hume pipe pump house/Cistern on size stone masory platform including trasportation charges and handing with all necessary tools and plants complete as directed by the Engineer in charge of work. with all lead and lift etc complete as per specifications and directions of engineer in charge of the work	Each	1.00	1220.00	**1220.00**	1.00	1400.00	**1400.00**	1.00	1400.00	**1400.00**	1.00	1400.00	**1400.00**	

	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km with all lead and lift etc complete as per specifications and directions of engineer in charge of the work (For Lead Approved Modified Work Order No. EE/BTP/BBMP/E-PMT/ /2014-15 Date:	Cum	250.63	62.20	**15589.19**	250.63	65.29	**16363.63**	250.63	65.29	**16363.63**	250.63	65.29	**16363.63**	
Total					**1977089.62**			**2075641.87**			**2075641.87**			**2075641.87**	

Note:

1 As per Lead Approved by Chief Engineer Yelahanka Zone for Notesheet Para No. 19 and Joint Commissioner Yelahanka Zone Approved No. 1776/14-15 and Dated. 27.08.2014 and Notesheet Para No. 20

AE-OJ

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